# pyRinexpro

# Contents:

pyRinexpro is a Python client for the rinexpro API.

# CHAPTER 1

## Install

pyRinexpro can be install using pip

```
pip install pyRinexpro
```

# CHAPTER 2

# Getting Started

The first step is to import the pyRinexpro module and to instantiate a `pyRinexpro.Client` using your API key

```python
>>> import pyRinexpro as rnx
>>> client = rnx.Client(API_KEY)
```

From the client you can create a `pyRinexpro.Session` by uploading a session file

```python
>>> session = client.uploadSession("your_session_file")
```

Once the session preprocessing is completed, which should take about 20 seconds, you can create and run a `pyRinexpro.Process` from this session

```python
>>> process = session.newProcess('ppp', mode='static')
```

Once the process is completed you can get the resultat as a `pyRinexpro.Log` object

```python
>>> log = process.getLog()
```

Trajectory can be transfom into a pandas.DataFrame object

```python
>>> log.trajectory.df()
```

Results can be exported to geojson, kml and kmz

```python
>>> log.to_geojson('new_file.json')
>>> log.to_kml('new_file.kml')
>>> log.to_kmz('new_file.kmz')
```

# CHAPTER 3

## Docs

- pyRinexpro.client
- pyRinexpro.session
- pyRinexpro.process
- pyRinexpro.logs

# CHAPTER 4

# Indices

- pyRinexpro
- genindex